Event

MPTS IJET
FAM 4501
T-45

Mission

FAMILIARIZATION SOLO

1.2 HOURS/X

ORM

FAM 4501

- **OPERATIONAL REQUIREMENTS / LIMITATIONS**
  - **CREW REST/ CREW DAY / WORK WEEK**
  - **WARM-UP ELIGIBILITY**
  - **PREVIOUS FLIGHT COMPLETE?**
  - **IP CURRENCY**
  - **READ AND INITIAL**

- **HUMAN FACTORS**
  - **LIFE STRESSORS / EXTERNAL FACTORS/ PERSONAL PROBLEMS**
  - **MEDICAL STATUS**
    - **CREW DAY**
    - **CREW REST**
    - **NOURISHMENT**
    - **HYDRATION**

- **HAZARDS AND CONTROLS**
  - **ROUTINE**
  - **WEATHER**
    - **CURRENT OBSERVATIONS AND FORECASTS**
    - **CROSSWINDS**
    - **FUEL CONSIDERATIONS**

TTO

FAM 4501

- **WHO WILL CALL A TTO?**

- **WHAT SITUATIONS WILL THE TTO BE CALLED?**
  - **SAFETY**
  - **CONFUSION**
  - **MISUNDERSTANDING**

- **IP RESPONSIBILITIES**
  - **RECOGNIZE THE NEED FOR A TTO**
  - **EXPLANATION / INSTRUCTION AS NECESSARY**
  - **DOCUMENTATION ON ATF**

- **WHEN AND HOW WILL TRAINING RESUME?**

SSR/DISCUSS ITEMS

FAM 4501

- **SPECIAL SYLLABUS REQUIRMENTS:**
  - **NONE**

- **PREREQUISITES:**
  - **FAM 4490**

- **DISCUSS ITEMS:**

FAM 4501

- **NATOPS/SOP/EP QOD, AND LOST AIRCRAFT SITUATIONS.**

SYLLABUS NOTES

FAM 4501

A. AT A MINIMUM, GENERAL KNOWLEDGE/PROCEDURES, HEADWORK/SITUATIONAL AWARENESS, AND MISSION PLANNING/BRIEFING/DEBRIEFING SHALL BE GRADED BY A QUALIFIED INSTRUCTOR.

B. INTENTIONAL SPINS, ACCELERATED STALLS, UNUSUAL ATTITUDES, APPROACH TURN STALLS, AND VERTICAL RECOVERIES ARE PROHIBITED MANEUVERS FOR SOLO STUDENTS.

ADMIN (CARD)

FAM 4501

- **A/C – ATC C/S – CREW**
- **BRIEF / WALK / TAKEOFF / LAND TIMES**
- **ATC CLEARANCE / DD-175**
- **FUEL PLAN/LADDER**
- **LINE / T/O / ABORT / RPM**
- **COMM PLAN**
- **NAV PLAN**

ADMIN

FAM 4501

- **LAUNCH**
  - **WEATHER / NOTAMS / TFR / BASH**
  - **PREFLIGHT / START / TAXI**
  - **ITO**
  - **SWAPPING OF CONTROLS**
  - **ENROUTE PROCEDURES**
  - **RADALT USAGE**

- **RTB**
  - **RECOVERY**
  - **DIVERTS**

CONDUCT

FAM 4501

- **TIMS RESUME REVIEW**
- **PRACTICE:**
  - **CHECKLISTS/COMM/GROUND OPS**
  - **TAKEOFF/DEPARTURE/FLIGHT ADMIN**
  - **DEPARTURE PROCEDURE**
  - **COURSE RULES**
  - **AEROBATICS**
  - **SQUIRREL CAGE**
  - **DESCENT/FIELD ENTRY**
  - **PRECAUTIONARY APPROACH (ES)**
  - **VFR LANDING PATTERN**
  - **FIELD CARRIER LANDING**
  - **FF ROLL-AND-GO**
  - **CROSSWIND LANDINGS**
  - **WAVEOFF**
  - **FULL STOP LANDING**

DID YOU KNOW?

• THE HIGH BLOCK (R-4404C) FOR SEARAY TARGET EXTENDS FROM 11,500 MSL TO 14,500 MSL AND MAY BE IN USE BY AIR FORCE T-38s WHEN THE TARGET IS HOT.

• IF CONSIDERING PHILADELPHIA FOR AN EMERGENCY LANDING, THE RUNWAY LENGTH IS ONLY 5,000 FT.

• “GOLDEN TRIANGLE” FIELD – FIVE MILES NORTH OF LUKE’S NORTHERN BORDER HAS A RUNWAY LENGTH OF 8,000 FT AND THAT FIELD IS USED EXTENSIVELY BY COLUMBUS AFB AIRCRAFT FOR OUT-AND-INs.

BLOCK MIF

FAM 4501

CTS REF	MANEUVER	FAM4501
1	General Knowledge/Procedures	4+
2	Emergency Procedures	3
3	Headwork/Situational Awareness	3+
4	Basic Airwork	1+
5	Mission Planning/Briefing/ Debriefing	4+
6	Communications	1+
7	Ground Operations	1+
8	Flight Admin	1+
10	Takeoff	1+
11	Departure Procedure	1+
8	Course Rules	1+
27	Aerobatics	1+
27	Squirrel Cage	1+
13	Descent/Field Entry	1+
21	Precautionary Approach(es)	1
22	VFR Landing Pattern	1+
23	Field Carrier Landing	1+
23	FF Roll-and-Go	1
23	Crosswind Landings	1
24	Waveoff	1
23	Full-Stop Landing	1+

Emergencies

FAM 4501

- **AIRCRAFT FALLOUT**
- **CLEAR ENGINE PROCEDURE**
- **ABORTED TAKEOFF**
- **RWY DEP / LOSS OF DIRECTIONAL CONTROL**
- **SYSTEM FAILURES/ EPs / CRM**
- **BIRD STRIKE/ MIDAIR**
- **RADIO/ ICS FAILURE**
- **LOSS OF NAVAIDS / LOST PLANE**
- **INADVERTENT IMC / LOST SIGHT / LCLS**
- **DISORIENTATION / VERTIGO**
- **HYPOXIA**
- **EJECTION (HIGH / LOW / GROUND)**
- **SAR / ON SCENE COMMANDER**
- **DIVERT(S) / BINGO FUEL TO DIVERT**

STANDARD DEBRIEFING FORMAT

FAM 4501

- THE FLIGHT LEAD OR PILOT-IN-COMMAND IS RESPONSIBLE FOR ENSURING ALL FLIGHT OR CREWMEMBERS ARE THOUROUGHLY DEBRIEFED ON THE CONDUCT OF THE MISSION UTILIZING THE "S-P-B-E-MS-LL" FORMAT OUTLINED BELOW.

I. SAFETY
II. PLANNING
III. BRIEF
IV. EXECUTION
V. MISSION SUCCESS
VI. LESSONS LEARNED